

Title (en)
ENCODING DEVICE, DECODING DEVICE, AND METHOD THEREOF

Title (de)
CODIERUNGSEINRICHTUNG, DECODIERUNGSEINRICHTUNG UND VERFAHREN DAFÜR

Title (fr)
DISPOSITIF DE CODAGE, DISPOSITIF DE DÉCODAGE ET LEUR PROCÉDÉ

Publication
EP 2101322 A4 20110831 (EN)

Application
EP 07850645 A 20071214

Priority
• JP 2007074141 W 20071214
• JP 2006338341 A 20061215
• JP 2007053496 A 20070302

Abstract (en)
[origin: US2010017198A1] Disclosed is a decoding device and others capable of flexibly calculating high-band spectrum data with a high accuracy in accordance with an encoding band selected by an upper-node layer of the encoding side. In this device: a first layer decoding unit (202) decodes first layer encoded information to generate a first layer decoded signal; a second layer decoding unit (204) decodes second layer encoded information to generate a second layer decoded signal; a spectrum decoding unit (205) performs a band extension process by using the second layer decoded signal and the first layer decoded signal up-sampled in an up-sampling unit (203) so as to generate a all-band decoded signal; and a switch (206) outputs the first layer decoded signal or the all-band decoded signal according to the control information generated in a control unit (201).

IPC 8 full level
G10L 19/24 (2013.01); **G10L 21/038** (2013.01)

CPC (source: EP US)
G10L 19/24 (2013.01 - EP US); **G10L 21/038** (2013.01 - EP US)

Citation (search report)
• [XA] OSHIKIRI M ET AL: "Efficient spectrum coding for super-wideband speech and its application to 7/10/15 KHz bandwidth scalable coders", ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 2004. PROCEEDINGS. (ICASSP '04). IEEE INTERNATIONAL CONFERENCE ON MONTREAL, QUEBEC, CANADA 17-21 MAY 2004, PISCATAWAY, NJ, USA,IEEE, PISCATAWAY, NJ, USA, vol. 1, 17 May 2004 (2004-05-17), pages 481 - 484, XP010717670, ISBN: 978-0-7803-8484-2, DOI: 10.1109/ICASSP.2004.1326027
• [A] FUCHS GUILLAUME ET AL: "A Scalable CELP/Transform Coder for Low Bit Rate Speech and Audio Coding", AES CONVENTION 120; MAY 2006, AES, 60 EAST 42ND STREET, ROOM 2520 NEW YORK 10165-2520, USA, 1 May 2006 (2006-05-01), XP040507696
• [A] BERND GEISER ET AL: "A Qualified ITU-T G.729EV Codec Candidate for Hierarchical Speech and Audio Coding", 2006 IEEE 8TH WORKSHOP ON MULTIMEDIA SIGNAL PROCESSING, MMSP'06, VICTORIA, CANADA, 1 October 2006 (2006-10-01), pages 114 - 118, XP031011031, ISBN: 978-0-7803-9751-4
• See references of WO 2008072737A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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DOCDB simple family (application)
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